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30 October 1957

Dear Dan:

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The enclosed proposal is in response to a request by that we study certain changes to System 4 and its associated ground data-handling equipment.

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[The first of these changes is the addition of switching provisions to permit a distinction between right and left-hand intercepts on Bands 1A and 1B. These switching provisions would be similar to those now provided on Band 2 through 7 receivers.] The second change proposed is to use FM rather than AM in the AGC tone carriers to prevent degradation of AGC information during the duplication operations in the ground data-handling equipment. The third change provides for indicating directly on the master tape the number of the photograph being taken in order to avoid ambiguities during the ground processing. These changes would substantially enhance the system's capabilities and the quality of the data obtained.

The changes will involve modifications to all airborne systems and to the "M" and "N" racks of the ground data-handling equipment. If this program is authorized by 15 November, we would propose to incorporate these changes into the equipment as follows: Models 104 through 107 of the System 4 equipment would be changed before they are delivered. Models 101 through 103 can be altered in the field with modification kits. The Prototype Models of both the "M" Rack and the "N" Rack can be modified prior to delivery. "M" Rack Engineering Models should be returned to us for retrofit here at the factory. The changes to the Engineering Models of the "N" Rack are basic enough that we believe it would cost less to build two new Engineering Models rather than attempt to rework the present ones. The second two Test Sets can be modified before delivery; we propose to prepare modification kits for the first two test sets. Instruction guides will be revised as necessary.

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The total estimated cost of this proposed program is
The fixed fee, at and the total estimated cost including fee 25X1

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Contractor to submit new proposal on bracketed item only 2011 11/20/57